

Human TIMP-1 ELISA Kit | TIMP-1 elisa kit

TIMP-1 Human ELISA Kit

CATALOG # AAA59023	REACTIVITY Human	APPLICATIONS ELISA
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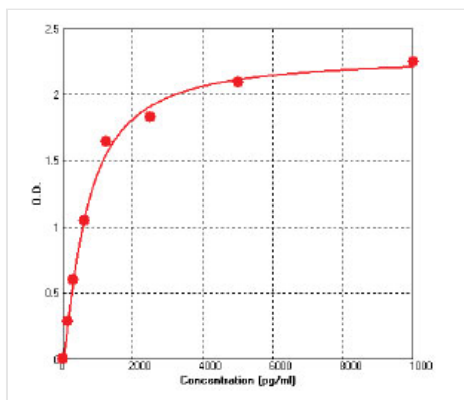
PRODUCT SYNONYMS

TIMP-1; TIMP-1 Human ELISA Kit; Human TIMP-1; TIMP-1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	Sandwich
Detection Range	< 5 pg/ml
Applicable Applications for TIMP-1 elisa kit	ELISA
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TIMP-1 elisa kit	Principle of the Assay This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-TIMP-1 polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-TIMP-1 polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the TIMP-1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of TIMP-1 can be calculated. Background/Introduction: Tissue inhibitor of metalloproteinase 1 (TIMP1), also known as Erythroid Potentiating Activity (EPA), is a 28,000 MW glycoprotein that is expressed from the several tissues of organisms. This protein is a member of the TIMP family. The glycoprotein is a natural inhibitor of the matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. It plays a major role in modulating the activity of interstitial collagenase as well as a number of connective tissue metalloendoproteases. Decreased TIMP1 and increased cathepsin V/L2 levels might play a role in the matrix degradation that is a hallmark of keratoconus corneas. It is able to promote cell proliferation in a wide range of cell types, and may also have an anti-apoptotic function.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	546974
NCBI GeneID	282092
UniProt Accession #	P20414; Q3T098; Q53ZP2; Q9TVB0
Molecular Weight	23,032 Da
NCBI Official Full Name	TIMP-1
NCBI Official Synonym Full Names	TIMP metallopeptidase inhibitor 1<
NCBI Official Symbol	TIMP1
NCBI Protein Information	metalloproteinase inhibitor 1; EG-1; TIMP-1; embryogenin-1; tissue inhibitor of metalloproteinases 1; tissue inhibitor of metalloproteinase 1 (erythroid potentiating activity, collagenase inhibitor)
UniProt Protein Name	Metalloproteinase inhibitor 1
UniProt Gene Name	TIMP1
UniProt Synonym Gene Names	EG-1; TIMP-1
UniProt Entry Name	TIMP1_BOVIN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/timp-1/59023>